Table 1. Fluorescence and OD Measurements of All Samples

Sample Identity	RFU 1 [2.]	RFU 2 [2.]	RFU 3 [2.]	OD 1 [3.]	OD 2 [3.]	OD 3 [3.]
Control (KillerRed plasmid) [1.]	118	120	116	0.46	0.44	0.47
J23101 + E0240	43958	45589	45002	0.49	0.47	0.45
J23115 (M) + E0240 [4.]	1124	1146	1133	0.47	0.48	0.46
J23115 + E0240 [5.]	390	411	394	0.53	0.52	0.51
pSB3K3	6540	6358	6556	0.50	0.50	0.52

1. Control sample was Top10 Cells, containing KillerRed Plasmid, which fluoresces red at 585 nm, and should show no fluorescence at the excitation wavelength for GFP

2. RFU = Relative Fluorescence Units

3. OD = Absorbance from cells at 670 nm

4. J23115(M) is the original J23115 part (with the 2 point mutations) we received from the registry

5. J23115 is the real J23115 part, which we had synthesized